					ATTY DOCKET NO.  RDID0105	31	SERIAL NO. 09/	937,474	
	INEC	RMATION DISCLOSURE	CITATION		<u></u>				
•		(Use several shrees) in elest	PAY C		BIRYUKOV, Serge FILING	ey et al.	GROUP		
		IAN 1 6 70	07 % C %		September 2	5, 2001		e Assigned	
		3.	U.S	. PATENT	DOCUMENTS				
*EXAMINER		DOCUMENT NUMBERTIALEN	RKO DATE		NAME	CLASS	SUBCLASS	FILING DATI	1
IIIIIAE									
	ļ							<del> </del>	
						Ì			
								<u> </u>	
								ļ <u></u>	
									ľ
					***************************************				
	<u> </u>								
								<del></del>	
								<u> </u>	
				1					
			FORE	IGN PATE	NT DOCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSI YES	ATION NO
Mu	23	EP0894852A2 & A3	02/99	Europe		C12M	1/40	ABS <b>∜</b> RA¢	CT
in		JP05-076381	3/1993	Tay	24 n	_			
Mu		5/07-031494	ac7/1993	<u>D</u>	Pha		_		
Mo		1007-075592	311995	25	06 n				
Mw		JP 10-080295	3/1998	Je	pan				
		OTHER DOCUME			r, Title, Date, Pertind				
1.		Alberts B. et al.,"Intrace Protein Function, pg. 13.	llular Membran 3	es Increa	ses the Rates of Diffusion	on-limited Reac	tions", New Yor	k/London 1	983,
Mw		24							
		Baranov, Vladimir I, et a	il,"Gene Expres	sion in Ce	Il-Free System on Prep	parative Scale",	Methods in Enz	ymołogy. V	ol., 217
Mus		pgs 123-142 25							
10					_				
EXAMINE	R	luth.h			DATE CONSIDERED	13/03			
*EYA\$41\$10	<i>J.</i>	ial if reference considered, whether	r or not citation is	in conform	nance with MPEP 609. F	<del></del>	citation if not in o	conformance	and not
considered	:K: Init J. Incli	ial if reference considered, whether ide copy of this form with next con	nmunication to ap	plicant.	HONGE WILL WILL COS. C				

Form PTO-A820 (also form PTO-1449)

P09C/REV03

Patent and Trademark Office \* U.S. DEPARTMENT OF COMMERCE

			(IB)	Docket Number (Optional)  RD1D01051U	Application Number 09/937,474			
INF	ORM	ATION DISCLOSURE CIT	TION (E)	Applicant(s)	44751111			
• '	•	(Use several sheets if necessary)	JAN 1 6 2002	BIRYUKOV, Sergey et al.  Filing Date	Group Art Unit			
			E .	September 25, 2001	To Be Assigned			
*EXAMINER	•	OTHER DOCUMENTS	The surjust surport Til	le, Date, Pertinent Pages, Etc.)				
INITIAL.	. <b>.</b>	Baranov, J. Vladimir et al., "(	Gene expression in a	ell -free system on the preparatvie so	cale", Gene. 84 (1989) 463-466			
Mu	26							
My	27	Craig, David et al., "Plasmic system", Nucleic Acids Resea	d cDNA-directed proturch, Vol. 20, No. 19 4	ein synthesis in s coupled eukaryotic 987-4995	in vitro transcription-translation			
1h;	!	Davis, Julio et al., "Large Sca	ale Dialysis Reactions	Using E. Coili S30 Extract Systems'	', Promega Notes (pg. 14-21)			
MW	28							
Mp	29	Kleinkauf, <del>Horst</del> et al., "Firs Biochemistry and Molecular	t German-Russian Su Biology September 28	mmerschool on In Vitro Systems", T 3-30, 1994 (pg 63-70)	echnical University Berlin Institute of			
M	30	Guajardo, Richard et al., "N Occurs through Passive Slidi Productuve Initiation", J. M	ing and Reveal that D	fects on Initial Transcription by T7 I ivergent Promoters have Distinct N7 77-792	RNAP Indiacte that Translocation P Concentration Requirements for			
Me	31	Vsevolod V3 Gurevich, et al., Biochemistry 195, 207-213 (1	"Preparative in Vitre 991)	o mRNA Synthesis Using SP6 and T	7 RNA Polymerases", Analytical			
(110)	32	Kern, Jeffrey A et al., "App. 13, 747-756	lication of Solution Ec	quilibrium Analysis to in Vitro RNA	Transcription", Biotechnol. Prog. 1997,			
M	33	Kigawa, <del>Takanaori</del> et al., " <i>A</i> Biochem. 110, 166-168 (1991	Continuous Cell-Fre	ee protein Synthesis System for Coup	led Transcription-Translation", J.			
Mu	34	Laios, Eleftheria et al., "Nov Molecules", Clinical Biochen	el Hybridization Assa nistry, Vol. 31, No. 3,	y Configurations Based on In Vitro l 151-158, April 1988	Expression of DNA Reporter			
'   [M]	35	Maier, <del>Thomas</del> et al., "Strep Biosynthesis", Analytical, Bi	-Tag II Affinity Purif ochemistry 259, 68-73	ication: An Approach to Study Inter 5 (1998)	mediates of Metalloenzyme			
M	36	Martemyanov Kirill A. et al., "Direct expression of PCR products in a cell-free transcription/translation systen: synthesis of antibacterial peptide cecropin", FEBS Letters 414 (1997) 268-270						
- '	37	Merrick, Williams C., "Tran Monitoring Cloned Gene Ex	nslation of Exogenous pression pgs 606-615	mRNAs in reticulocyte Lysates", M	ethods in Enzymology, Vol. 101,			
EXAMINER				DATE CONSIDERED	A			
	[l]	afflet		12/3/03				
*EXAMINER:	Initial i	citation considered, whether or n	ot citation is in conform	ance with MPEP Section 609; Draw line	through citation if not in conformance and			

not considered. Include copy of this form with next communication to applicant.

				Docket Number (Optional)	Application Number					
			13910	RDID01051U	09/937,474					
INF	ORM	ATION DISCLOSURE CITATI  1 Use several sheets if necessary)  J		Applicant(s) BIRYUKOV, Sergey et al.						
	•	(A)	M 1 6 5005 CV	Filing Date September 25, 2001	Group Art Unit  To Be Assigned					
*EXAMINER		OTHER DOCUMENTS	Theding Antiller, Tit	le, Date, Pertinent Pages. Etc.)						
, INI <u>TIAL</u>		Pelham, Hugh R.Boet al., "An Eff			Reticulocyte Lysates", Eur. J. Biochem.					
1/1	38	,67, 247-256 (1976)								
a pu		•								
		Pokrovskaya, Irina D. et al., "In V Biochemistry 220, 420-423 (1994)		on: Preparative RNA Yields in An	alytical Scale Reactions", Analytical					
MV	39									
	<del></del>	Roberts, Bryan E, et al., "Efficien	t Translation of	Tobacco Mosaic Virus RNA and F	Rabbit Globin 9S RNA in a Cell-Free					
Ww	40	System from Commercial Wheat	Germ", Froc. Na	t. Acad. Sci. USA Vol. 70, No. 8, pg	(\$ 2550-2554; August 1775					
<b>V</b> 1		Duchaya L.A. et al. "Propagative	cynthesis of alab	in in a continuous cell-free transla	tion system from rabbit reticulocytes",					
1.	1	Volume 17, Number 11, 1989 pg 4	412	in a continuous cen-nee transia	ion system from rappic reneurocytes ,					
M	41									
<u> </u>	1	Ryabova, Lyubov A. et al., "Cont 'Systems", Volume 77 (8) pgs	inuous-Flow Cell	-Free Translation, Transcription-	Franslation, and Replication-Translation					
(11)	42	,,,,,,								
	i	Spirin, Alexander S. et al., "Cell-Free Synthesis Bioreactor", 1992 American Chemical Society, pgs 31-43								
11.			•		V · V ·					
M	i									
	:	Spirin, Alexander S. et al., "A Con Vol. 242, pgs 1162-1164 , 1488	ntinuous Cell-Fre	e Translation System Capable of P	roducing Polypeptides in High Yield",					
MW	44									
	<u>.</u>	Suzuki, Harus, "Effect of Concer Synthesized", J. Biochem., 82, 25	ntration of KCI,	Magnesium Acetate and Spermine	on the Ratio of a to B Globin Chains					
Mw	45	Synthesized , J. Blotheni, 62, 25	1-200 (1997)							
		Volumile Flored et al. "Syntha	sis of Prangrative	Amour of Riologically Active Inte	rleukin-6 Using a Connous-Flow					
i IA		Cell-Free Translation System", A	nalytical Biochen	Amour of Biologically Active Intensitry 214, 289-294 (1993)	Training to compare them					
MW	46									
. HV		Yamamoto, <del>Yu-lehi</del> et al., "Hollov (pgs 1047-1050)	w Fiber Reactor I	For Continuous Flow Cell-Free Pro	tein Production", Vol. 29 No. 6 1996					
M	47									
	+	Zubay, Geoffrey et al., "In Vitro	Synthesis Of Pro	tein In Microbial Systems", 1973,	pg 267-287					
In	48									
	! •			resident de	Status discussion 14 mm					
,,		Koche Molecular Biochemicals, "	Linkea in vitro S	P6/T7-Transcription/Translation I	xit-radioactive , to pgs					
ap	19									
EXAMINER	//	1.14		DATE CONSIDERED						
	K	al Nu		12/3/03						
*EXAMINER:	Initial i	f citation considered, whether or not cita	ition is in conforma	nce with MPEP Section 609; Draw line	e through citation if not in conformance and					

not considered. Include copy of this form with next communication to applicant.

					ATTY DOCKET NO.  RDID01051	Si	ERIAL NO. <b>09</b> /9	937,474	
•	INIC	RMATION DISCLOSURE			BIRYUKOV, Sergey e	al.			
	•	OLES	\		FILING September 25, 20		GROUP To Be Assigned		
1		JAN 1 ZGUZ	U.S	. PATENT	DOCUMENTS				
*EXAMINER		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DAT	
M	8	4,668,624	05/87	Roberts		435	68		
Mi	9	4,937,190	06/90	Palmenberg et al.		435	69.1		
Mw	10	5,135,853	08/92	Dziewulski et al.		435	41		
Mu	11	5,324,428	06/94	Flaherty		210	232		
Aw	12	5,324,637	06/94	Thomps	on et al.	435	68.1		
no	13	5,434,079	07/95	Mozaye	ni	435	311		
	14 5,503,741		04/96	Clark		210	232		
/9W	15	5,674,729	10/97	Wimme	r et al.	435	235.1		
M	16	5,807,717	09/98	Joyce		435	91.1		
	17	6,107,055	08/00	Bauer et al.		435	68.1		
• · • · • · · · · · · · · · · · · · · ·									
			FORE	IGN PATE	NT DOCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSI YES	ATION NO
M	18	EP0312617B1 '	04/89	Europe		C12P	2 <del>1/02</del> A	es <b>y</b> rac	T
M	19	EP0398083A1	11/90	Europe		G <del>12M</del>	1/12 7	BS <b>C</b> RA	CT
	20	EP0401369B1	12/90	Europe .		C12P	<del>21/00</del>		\
Mu	21	EP0485608B1	05/92	Europe		C12P	<del>21/00</del>		
M	22	EP0593757B1	04/94	Europe		G12P	21/00-		
		OTHER DOCUMEN	ITS (Includin	g Author	, Title, Date, Pertinent F	Pages, Etc.)		_	
								**	
EXAMINER	2	lathii			DATE CONSIDERED 12/3/03				
		al if reference considered, whether				ine through cita	ation if not in $lpha$	onformance	and not

Form PTO-A820 (also form PTO-1449) P09C/REV03

Patent and Trademark Office \* U.S. DEPARTMENT OF COMMERCE

				Docket Number (Optional)		Application Number
			OIPE	RDID010		09/937,474
IN		ATION DISCLOSURE CITA Use several sheets if necessary)	<i>1</i> 9	Applicant(s) BIRYUKOV, Serg		
		·	JAN 1 6 2002	Siling Date September 2		Group Art Unit  To Be Assigned
*ENAMINER INITIAL		OTHER DOCUMENTS				
		PATENT ABSTRACTS OF J	APAN, 05-076381, 30	/03/1993, "Methods 1	or Synthesizing P	olypeptide", 2 pgs
,	50					
•	1 .	JAPANESE ABSTRACT, Pat	ent No. 07-031494 (1	pg)		
	51	ı			,	
	; <del> </del>	DATEME A DOED A CITE OF L	A DA N. 07 075502 200	02/1004 - Natarkad Jar	Synthesizing Pro	otein by Extracted Solution of Cel
	 	and Device Therefor", (3pgs)	APA:1, 01-075572 20/	variyya Method for	Synthesizing Fit	item by Extracted Solution of Co.
	52					
		PATENT ABSTRACTS OF J. Apparatus Therefor" (3pgs)	APAN, 10-080295, 31	/03/1998, "Synthesis	of Protein by Cel	-Free Protein Synthetic System at
	53	! 				
	<del> </del>	(Image), Single Tube Protein	System 3, Copyright	1998 by Novagen, Inc	., (12 pgs)	
,,	54					
10 My						
	ļ 1					
	1	; •				
	:					
<u></u>	:				- · · ·	
	1					
	<u> </u>					
	1					
	· · · · · · · · · · · · · · · · · · ·	i . ∤				<del></del>
	:					
		!				
		i			··	
	•	1 1 1				
·	•	· · -				
	;	:				
EVANDED				DATE CONSIDERED		
EXAMINER		// //		DATE CONSIDERED	13/03	
*EXAMINER:	nitial if	citation considered, whether or not	citation is in conforma	nce with MPEP Section	609; Draw line thro	ough citation if not in conformance an
not considered.	Include	copy of this form with next commu	inication to applicant.			

P09B/REV04